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	9 A PAMBABTEAN	AP THE PASS	TO ACHEDATA	N BACSTIIE GA	TUE

- SECOND GENERATION POSITIVE WAS MADE BY SPECTRE PERSONNEL ON NUMEROUS PASSES, COMPARING TARGETS RANGING FROM HIGH TO LOV CONTRAST. A COMPARISON OF HORIZON CAMERA IMAGERY WAS ALSO MADE TO DETERMINE THE SHAPPNESS OF THE MORIZON TRACE.
 - FOLLOWING ARE EXAMPLES OF THE TARGETS COMPARED.

A. H TARGETS WITHIN PANOPAMIC FORMAT:

(1)	a	AIRFIELD

50X1

AIRCRAFT PARKED ON THE AIRFIELD APPEAR WELL DEFINED AND NO APPARENT QUALITY DIFFERENCE IS NOTED EXCEPT FOR SLIGHT GRAININESS IN THE FOURTH GENERATION POSITIVE UNDER 7-TIME USING 29-TIME MAGNIFICATION. THE GRAININESS MAGNIFICATION. IN THE FOURTH GENERATION POSITIVE BECOMES VERY APPARENT, AND THE IMAGE QUALITY IS AFFECTED. THE DISTANCE BETWEEN WING TIPS

PARKED AIRCRAFT IS VERY DIFFICULT TO DFTERMINE ON THE

DOCUMENT NO. NO CHANGE IN CLASS. ☐ DECLASSIFIED CLASS. CHANGED TO: TS (\$)C2011

NEXT REVIEW DATE:

AUTH: HR 70-2

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IN 84445 SPECTRE 0952 POPS	E C R E T PAGE TWO
FOURTH GENERATION POSITIVE USING T	
(2)	- SHIPPING 50X
THE FOURTH GENERATION POSI	TIVE LOSES DETAIL AND IS NOT
AS CRISP, ESPECIALLY UNDER 20-TIME	
(3)	- CITY ALONG RIVER 50X
THE FOURTH GENERATION POSI	TIVE APPEARS SLIGHTLY HIGHER
IN CONTRAST BUT IS GRAINY AND LOSE:	S DETAIL ABOVE 7-TIME MAG-
NIFICATION.	
B. HORIZON CAMERAS:	.
(1)	- PORT AND STARBOARD HORIZON 50X
CAMERAS	
HORIZON CAMERA INAGERY IS	very poor on fourty generation
POSITIVE, LACKING IN CONTRAST AND I	DETAIL. THE HORIZON TRACE
OF THE FOURTH GENERATION POSITIVE	is not nearly as well defined
AS THE SECOND GENERATION POSITIVE.	
(2)	- STARBOARD HORIZON CAMERA 50X1

THE FORMAT OF HORIZON CAMERA CANNOT BE DISTINGUISHED ON THE FOURTH GENERATION POSITIVE AND THE FORMAT ON THE SECOND GENERATION IS NOT WELL DEFIINNED BUT CAN BE DISTINGUISHED.

3. CONCLUSIONS:

THE FOURTH GENERATION POSITIVE, THOUGH HAVING A GENERAL APPEARANCE OF SLIGHTLY HIGHER CONTRAST, DOES NOT PRODUCE IMAGED QUALITY COMPARABLE TO THE SECOND GENERATION POSITIVE. ABOVE 7-TIME MAGNIFICATION, GRAININESS BECOMES VERY APPARENT OF THE

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IN 84445 SPECTRE 0952

I OP SECRET PAGE THREE

FOURTH GENERATION POSITIVE, CAUSING LOSS OF DETAIL WHERAS THE SECOND GENERATION POSITIVES SHOW LITTLE LOSS OF DETAIL AT MAGNIFICATIONS MUCH GREATER THAN 7 TIMES. USE OF MAGNIFICATIONS ABOVE 7 TIMES IS ESSENTIAL IN PI WORK AND MENSURATION ON THIS TYPE OF PHOTOGRAPHY, BECAUSE OF THE SCALE FACTOR. THE FOURTH GENERATION POSITIVE COULD POSSIBLY BE USED IN RAPID SCANNING OR PLOTTING, BUT THE LOSS OF DETAIL WOULD SERIOUSLY HAMPER DETAILED PI WORK, ESPECIALLY MENSURATION.

END OF MESSGE

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